3/2-way lever valve

A. u. K. Müller

Series 47.00x.203



⚠ PPSU valve bodies may not come in contact with:
acetone, ethers, ketones, aromatic hydrocarbons, chlorinated hydrocarbons, acids and oxidizing anaerobic adhesives.

Characteristics

- Direct acting
- Medium separated
- Long term performance capability
- No minimal pressure required
- Easy to assemble and service
- Low power consumption
- Any fitting position
- Minimal dead areas in valve body
- High operating safety through the use of high quality materials and 100% final testing of the products

Description

Direct acting 3/2 way solenoid valve with different orifice sizes for control of neutral gases and liquids. The plunger of the magnetic system is protected by spatial separation from the medium. In particular, the low dead space is a further advantage of the lever valves.

Valves of this design are single chamber valves with 4 or 6 mm push-fit connections.

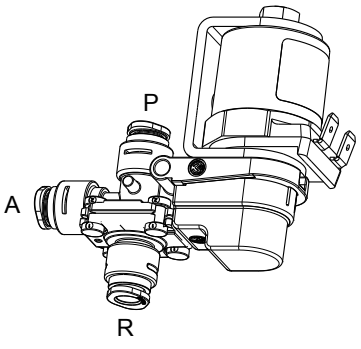
The coil system can be customised for common voltage and frequency ranges on request. Electrical operating safety is achieved by insulation class F and can be supported by an integrated protective circuit.

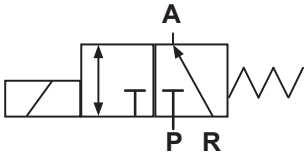
Due to the use of high quality materials, the valve is applicable for high ambient and medium temperatures up to 98 °C.

Ideally suited for dosing applications. The good thermal separation between the fluid path and solenoid also allows the use of temperature sensitive media, such as in the medical technology or analytics.

Possible approvals

- NSF 169
- UL
- Other approved versions available on request





Materials

Valve body	PPSU
Plunger guide	Stainless steel
Plunger	Stainless steel
Membrane	EPDM FKM
Coil coating	PBT or epoxy resin

Applications

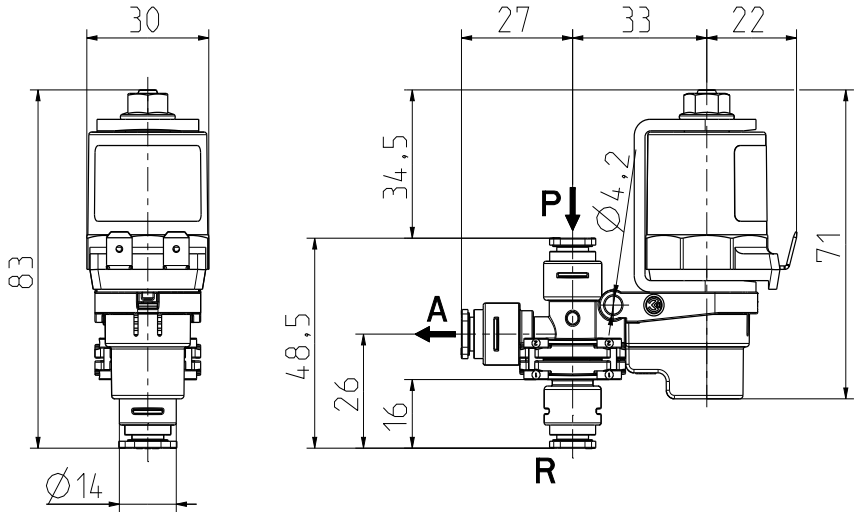
- Hot / cold drink dispensers
- Tank or boiler draining
- Medical engineering
- Laboratory / analysis equipment
- Industrial applications

⚠ Connection hoses should be installed with the lowest possible mechanical stress acting on the inlet and outlet connections!

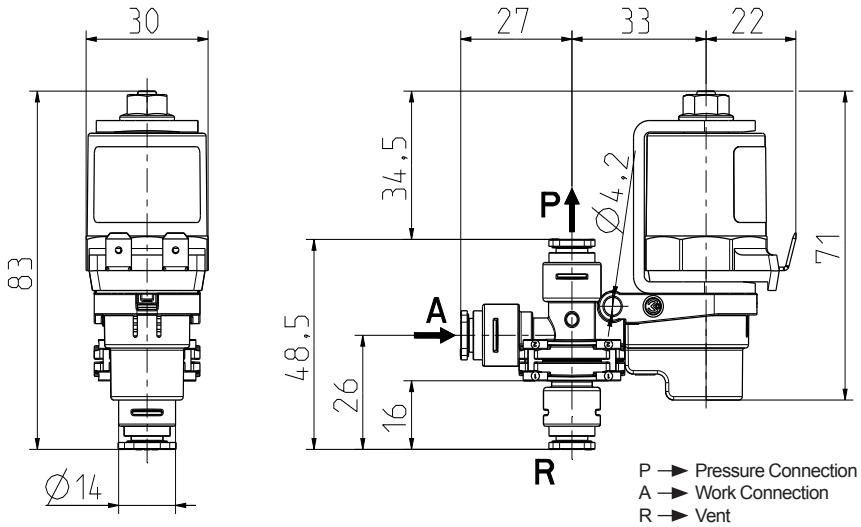
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Series 47.00x.203

DN 3 – ID 090310, 090311
DN 4 – ID 090309, 090325



DN 3 – ID 090317, 090318



P → Pressure Connection
A → Work Connection
R → Vent

Flow direction (→) is also in inverse direction possible.

Technical Data

Type	lever solenoid valve	
Construction	3/2-way single chamber valve, direct acting	
Function	flow path R - A normally open flow path P - A normally closed	
Fitting position	any, preferably with coil upwardly	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	98	°C max.
T-Ambient	60	°C max.
DN	3 4	mm mm
Voltage tolerance	±10%	
Duty cycle	100%	
Nominal power	9,5 W	
Protection Type	IP 00 up to IP 68 according to EN 60529	
Coil connections	flat tabs 6,3 x 0,8 mm plug socket according to EN 175301-803 (IP65), several cable connections (IP67, IP68)	
Insulation class	F	according to EN 60730
Protection class	I	according to EN 60730 (for incorporation in class I)

MS.006 (IP00)



MS.024 (IP65)



MS.025 (IP67, IP68)



Options

Type	Connection	Ending
G	Push-fit connection Ø 4 mm	
F	Push-fit connection Ø 6 mm	

Any combination of connectors for the outlets A, P and R possible.

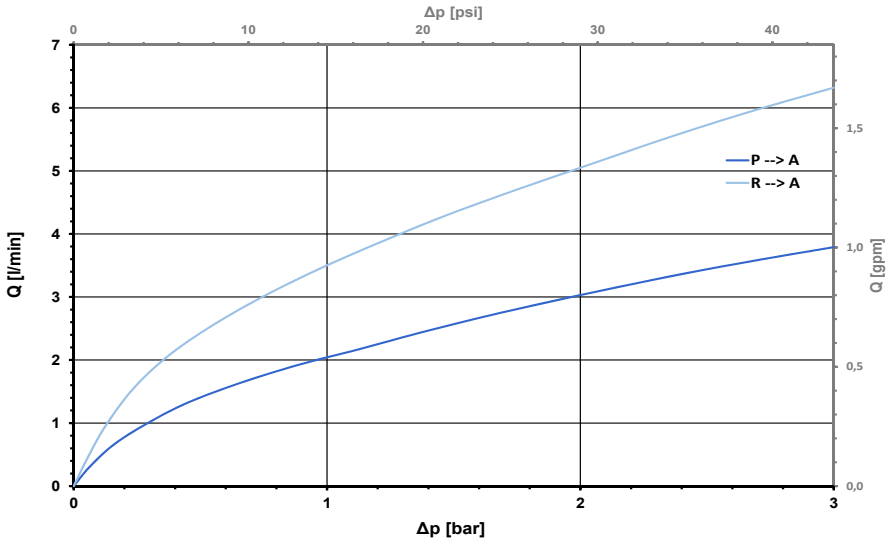
DN	Connector combination (P,A,R)	Membrane	preferred operating mode	p-operating			Cv-value				Coil	Nominal Voltage	ID
				P-A	A-P	A-R	P-A	A-P	R-A	A-R			
mm				bar			l/min						
3,0	G,F,F	EPDM	P-A	0 - 3,0	-		2,0	3,5	-	-	MS.006	24 V DC	090310
	G,G,G			0 - 5,0			1,6	1,7	-	-	MS.006	24 V DC	090311
	F,F,F	FKM	A-P/ A-R		0 - 3,0	0 - 3,0	-				MS.006	24 V DC	090317
	F,F,F				0 - 3,0	0 - 3,0	-				MS.024	230 V DC	090318
	F,F,F	EPDM	P-A	0 - 3,0	-					-	MS.025	24 V DC	090323
4,0	F,F,F	FKM	P-A	0 - 3,0	-		3,9	-	3,5	-	MS.006	24 V DC	090309
	F,F,F	EPDM	P-A	0 - 3,0	-		0 - 1,5	4,0	-	3,8			090325

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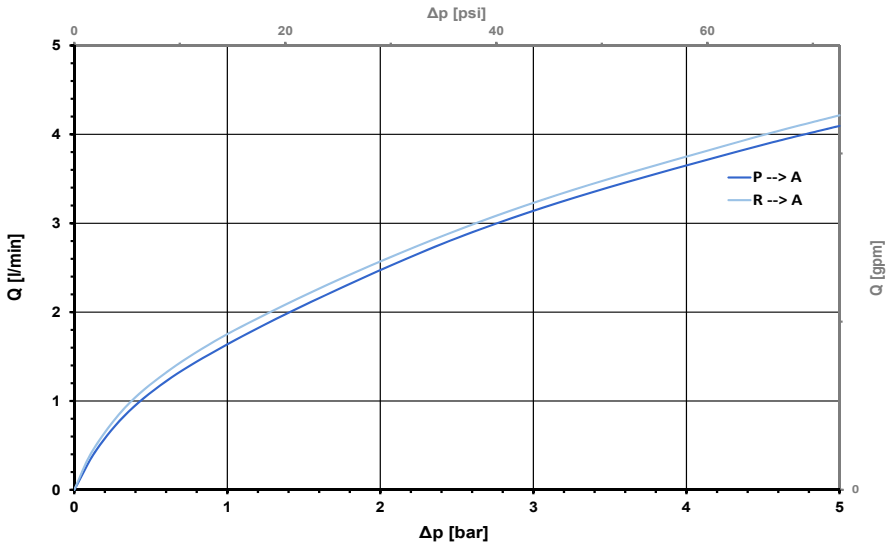
typical performance curves

DN 3 - ID 90310



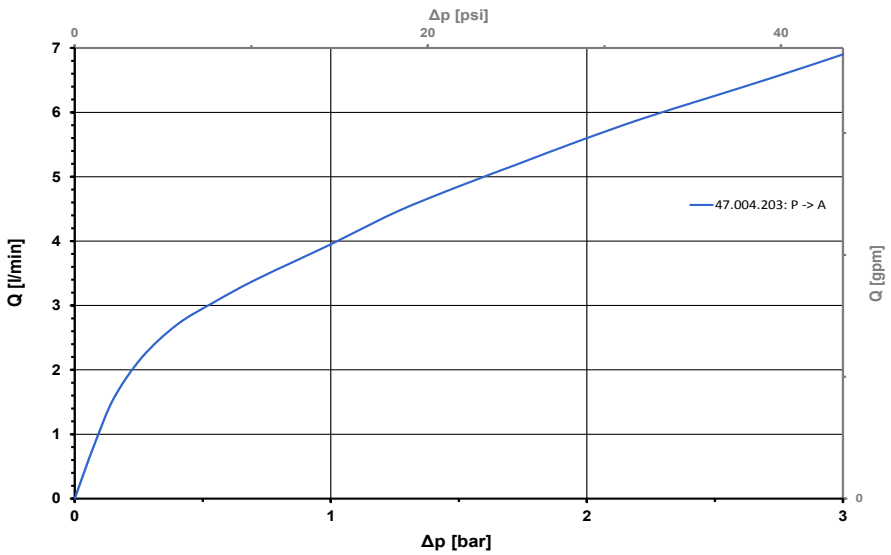
tubing 6,0 mm OD x 1,0 mm wall thickness /
4,0 mm OD x 0,75 mm wall thickness;
length 100 mm; fluid: water at 25°C; free outlet

DN 3 - ID 90311



tubing 4,0 mm OD x 0,75 mm wall thickness;
length 100 mm; fluid: water at 25°C; free outlet

DN 4 - ID 90309



tubing 6,0 mm OD x 1,0 mm wall thickness;
length 100 mm; fluid: water at 25°C; free outlet

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